

Datasheet for ABIN5608191

CD137 Protein (partial) (Fc Tag)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD137 (TNFRSF9)
Protein Characteristics:	partial
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD137 protein is labelled with Fc Tag.
Application:	Western Blotting (WB), ELISA

Product Details

Sequence:	Val 24 - Leu 211
Purity:	>92 % as determined by SDS-PAGE.
Endotoxin Level:	Endotoxin level is less than 1.0 EU per µg by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Mouse B7-1, Fc Tag at 2 µg/mL (100 µL/well), can bind Mouse CTLA-4, His Tag with a linear range of 0.02-0.8 ng/mL (QC tested).

Target Details

Target:	CD137 (TNFRSF9)
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Target Details

Alternative Name: 4-1BB ([TNFRSF9 Products](#))

Background: 4-1BB is also known as CD137, tumor necrosis factor receptor superfamily member 9 (TNFRSF9), induced by lymphocyte activation (ILA), is a co-stimulatory molecule of the tumor necrosis factor (TNF) receptor superfamily. CD137 can be expressed by activated T cells, but to a larger extent on CD8 than on CD4 T cells. In addition, CD137 expression is found on dendritic cells, follicular dendritic cells, natural killer cells, granulocytes and cells of blood vessel walls at sites of inflammation. The best characterized activity of CD137 is its costimulatory activity for activated T cells. Crosslinking of CD137 enhances T cell proliferation, IL-2 secretion survival and cytolytic activity. Further, it can enhance immune activity to eliminate tumors in mice. CD137 can enhance activation-induced T cell apoptosis when triggered by engagement of the TCR/CD3 complex. In addition, 4-1BB/4-1BBL co-stimulatory pathway has been shown to augment secondary CTL responses to several viruses, and meanwhile augment anti-tumor immunity. 4-1BB thus is a promising candidate for immunotherapy of human cancer. CD137 has been shown to interact with TRAF2.

Molecular Weight: 46.7 kDa

Gene ID: 21942

NCBI Accession: [NP_001070976](#)

Pathways: [Cancer Immune Checkpoints](#)

Application Details

Application Notes: This recombinant protein can be used for E, WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: 50 mM Tris, 100 mM Glycine, pH 7.5

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C, -80 °C

Storage Comment: Lyophilized Protein should be stored at -20°C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20°C or -70°C.